

GenCore version 5.1.3
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SUMMARIES

OM protein - nucleic search, using frame_plus_p2n model

Run on: March 14, 2003, 05:40:35 | Search time 257 Seconds
(without alignments)

2260.761 Million cell updates/sec

Title: us-09-698-781-3

Perfect score: 258

Sequence: 1 MKOILHPALLETNTATLFPVL.....KHQLVRDSCAKSCNSNSIY 258

Scoring table:

OLIGO
Xgapop 60.0, Xgapext 60.0
Ygapop 60.0, Ygapext 60.0
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 2185239 seqs, 112599159 residues

Word size: 1

Total number of hits satisfying chosen parameters: 1201076

Minimum DB seq length: 20

Maximum DB seq length: 99

Post-processing: Listing first 100 summaries

Command line parameters:

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-DB=N:Geneseq_101002 -OPRI=fastseq -SUFFIX=coll.rng -MINMATCH=0.1 -DOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdi
-LIST=100 -DOCLIGN=200 -THR=SCORE=quality -THR_MIN=1 -ALIGN=30 -MODE=LOCAL
-OUTFMT=ptc -NORM=ext -HEPSTZ=500 -MINLEN=20 -MAXLEN=99
-USER=US0968781 -ECGN_1_1_263 -etunal_07032003_083809_6932 -NCPU=6 -ICPU=3
-NO_XMAP -NO_MAP -LARGEQUERY -NEC_SCORES=0 -WAIT -LONGLOG -DEV_TIMEOUT=120
-WARN_TIMEOUT=30 -THREDS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database: N:Geneseq_101002.*

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22: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:*
23: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:*
24: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	DB ID	Description
1	13	5.0	65	24	ABN50999
2	7	2.7	41	21	AAA05906
3	7	2.7	31	21	AAZ87893
4	7	2.7	76	19	AAV01541
5	7	2.7	76	19	AAV96372
6	6	2.3	20	20	AAH38442
7	6	2.3	20	20	ABU43741
8	6	2.3	21	20	AAH37486
9	6	2.3	21	22	AAH37487
10	6	2.3	22	14	AAO52863
11	6	2.3	23	24	ABK95528
12	6	2.3	24	24	ABO00653
13	6	2.3	24	24	ABO05246
14	6	2.3	24	24	ABO05287
15	6	2.3	24	24	ABO11574
16	6	2.3	24	24	ABO11615
17	6	2.3	25	19	AAV35748
18	6	2.3	25	24	ABO64866
19	6	2.3	25	24	ABO64867
20	6	2.3	25	24	ABO64868
21	6	2.3	25	24	ABO64869
22	6	2.3	25	24	ABO64870
23	6	2.3	25	24	ABO64871
24	6	2.3	25	24	ABO64872
25	6	2.3	25	24	ABO64873
26	6	2.3	25	24	ABO13110
27	6	2.3	25	24	ABO13151
28	6	2.3	25	24	ABO95724
29	6	2.3	27	18	AAH84966
30	6	2.3	27	18	AAV00582
31	6	2.3	27	18	AAV61708
32	6	2.3	27	19	AAV17629
33	6	2.3	27	20	AAH77311
34	6	2.3	27	21	AAA08065
35	6	2.3	27	24	AAI72342
36	6	2.3	28	17	AAH17933
37	6	2.3	28	18	AAH76178
38	6	2.3	28	20	AAH53975
39	6	2.3	28	21	AAH19541
40	6	2.3	28	21	AAH33419
41	6	2.3	28	24	ABU31816
42	6	2.3	30	18	AAV43372
43	6	2.3	30	19	AAV32379
44	6	2.3	30	21	AAH87994
45	6	2.3	30	21	AAA59041
46	6	2.3	30	22	AAH27041
47	6	2.3	30	22	AAH27041
48	6	2.3	30	22	AAH27041
49	6	2.3	30	22	AAH27041
50	6	2.3	30	22	AAH27041
51	6	2.3	32	14	ABA94250
52	6	2.3	32	21	AAZ45458
53	6	2.3	32	21	AAH1781
54	6	2.3	33	24	AAH76047
55	6	2.3	34	21	AAH29079
56	6	2.3	35	22	AAH76744
57	6	2.3	35	22	AAH76744
58	6	2.3	35	22	AAH76744
59	6	2.3	38	19	AAH85593
60	6	2.3	39	12	AAH02123
61	6	2.3	40	17	AAH69524
62	6	2.3	40	20	AAH88949
63	6	2.3	40	21	AAH88949
64	6	2.3	40	21	AAH88949
65	6	2.3	44	15	AAH73448
66	6	2.3	45	21	AAH70359
67	6	2.3	47	21	AAH67884
			21		AAH68662

PT New Group B Streptococcus protein, useful as vaccine, for diagnosis of
PT Streptococcal infections and for screening of antibodies or alibodies
XX
XX Example 2; Page 52; 123pp; English.
XX
XX AAA05803 to AAA05872 encode proteins, polypeptides and peptides (given
CC in AAY91275 to AAY91343) isolated from Group B Streptococcus (GBS), also
CC known as Streptococcus agalactiae. The GBS polynucleotides and
CC polypeptides have antibacterial activity. Immunogenic compositions
CC comprising GBS polynucleotides or polypeptides can be used as vaccines
CC and for the treatment or prophylaxis of GBS infection. The
CC polynucleotides and polypeptides can also be used in the detection of GBS
CC and for screening DNA encoding bacterial cell envelope associated or
CC secreted antigens in gram positive bacteria. AAA05873 to AAA05941
CC represent primers used in the exemplification of the present invention.
XX
SQ Sequence 31 BP; 2 A; 9 C; 7 G; 13 T; 0 other;

Alignment Scores:
Pred. No.: 98.9 Length: 31
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 2.71% Indels: 0
DB: 21 Gaps: 0

US-09-698-781-3 (1-258) x AAA05906 (1-31)

OY 78 TPASnLysGluAlaAlaAla 84
DB 22 TGAACAAGAGAGCGCGCA 2

RESULT 3

AAZ87893
ID AAZ87893 standard; DNA: 41 BP.

XX AAZ87893;

XX 22-MAY-2000 (first entry)

DE AMG variant constructing primer HK3-K352Q.

XX Glucoamylase; variant; starch conversion; saccharification; ethanol;

KM fuel; beverage; fermentation; citric acid; ascorbic acid; thermostable;

KM G2 glucoamylase; fungal; AMG; PCR primer; ss.

XX Aspergillus niger.

XX WO200004136-A1.

XX 27-JAN-2000.

XX 09-JUL-1999; 99MO-DK00392.

XX 15-JUL-1998; 98DK-0000937.

XX 17-DEC-1998; 98DK-0001667.

XX (NOVO) NOVO-NORDISK AS.

XX Nlelsen BR, Svendsen A, Pedersen H, Vind J, Hendriksen HV;

XX Frandsen TP;

XX WPI; 2000-182412/16.

XX Variant fungal glucoamylases with improved thermostability and

XX increased specific activity, useful in saccharification processes -

XX Example 3; Page 60; 116pp; English.

CC process, especially continuous process which include a continuous
CC saccharification process. The variants can be used for producing
CC oligosaccharides, specially syrups, or ethanol for fuel or beverages.
CC They can also be used in fermentation processes for producing organic
CC compounds such as citric acid, ascorbic acid, lysine and glutamic acid.
CC The glucoamylase variants have improved thermostability and/or increased
CC specific activity. This is advantageous in industrial saccharification
CC processes. The risk of microbial contamination is also reduced when
CC carrying the saccharification process at temperatures above 63 plusoc.
CC An increased specific activity towards short chain saccharides such as
CC maltose (without reducing the activity towards oligosaccharides) would
CC also permit using a lower enzyme dosage and/or shorter process times.
CC Sequences AAZ87844-87911 represent PCR primers used to prepare DNA
CC fragments carrying the AMG gene. This is used for the construction, by
CC PCR shuffling spiked with DNA oligos, of A. niger AMG variants having
CC improved thermostability.
XX

Alignment Scores:
Pred. No.: 128 Length: 41
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 2.71% Indels: 0
DB: 21 Gaps: 0

US-09-698-781-3 (1-258) x AAZ87893 (1-41)

OY 24 VALAAGlyLeuProSer 30

DB 4 GTGCTGAGACTCTTCCAGC 24

RESULT 4

AAV01541/C
ID AAV01541 standard; DNA: 76 BP.

XX AAV01541;

XX 08-JUN-1998 (first entry)

DE LEU2 gene PCR primer KO-3'.

XX Acylcoenzyme A:cholesterol acyltransferase; ACAT I;

KM ACAT related gene product 1; ARGP-1; ARP-2; sterol esterification;

KM inhibitor; atherosclerosis; hyperlipidaemia; LEU2 gene; PCR primer;

XX Synthetic.

XX WO9745439-A1.

XX 04-DEC-1997.

XX 30-MAY-1997; 97MO-US09460.

XX 30-MAY-1996; 96US-0657620.

XX (OTCO) UNIV COLUMBIA NEW YORK.

XX Sturley SL;

XX WPI; 1998-032573/03.

XX DNA encoding acylcoenzyme A: cholesterol acyltransferase II or

XX atherosclerosis or hyperlipidaemia

XX Primers KO-3' and KO-5' (see AAV01540) were used in a PCR with LEU2

XX gene as template to produce a selectable yeast gene flanked by

XX acyl-coenzyme A:cholesterol acyltransferase II gene sequences

sequences. This was used to transform a derivative of yeast strain CC 5051, heterozygous for the areideltana allele. Integrants at the CC ARE2 locus were identified by further PCR (see AA01542-44). The CC invention relates to isolated nucleic acids (see AA01533-35) coding for human and mouse acyl-coenzyme A:cholesterol acyltransferase II and III (see AA043406-08), also designated ACAT related gene products (ARGP) 1 and 2. These can be used to identify inhibitors useful in the treatment of atherosclerosis and hyperlipidaemia.

Sequence 76 BP; 21 A; 17 C; 18 G; 20 T; 0 other;

Alignment Scores:

Pred. No.:	228	Length:	76
Score:	7.00	Matches:	7
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	2.71%	Indels:	0
DB:	19	Gaps:	0

US-09-698-781-3 (1-258) x AA01541 (1-76)

OY 248 LysAlaSerCysAsnCysSer 254

DB 44 AAGCATCTCGCAACTGTCT 24

RESULT 5

ID AA01542/C

AC AA01542: standard; DNA: 76 BP.

XX 21-MAY-1998 (first entry)

XX Yeast LEU2 gene primer KO-3'.

XX Acyl-coenzyme A:cholesterol acyltransferase 2; ARE2; yeast;

XX sterol; esterification; atherosclerosis; hyperlipidaemia;

XX antifungal; fungicide; LEU2 gene; selectable marker; PCR; primer;

XX ss.

XX Synthetic.

XX Saccharomyces cerevisiae.

XX WO9745336-A1.

XX 04-DEC-1997.

XX 30-MAY-1997; 97WO-US09160.

XX 30-MAY-1996; 96US-0657621.

XX (UNCO) UNIV COLUMBIA NEW YORK.

XX (INDV) UNIV INDIANA FOUNO.

XX Bard M, Sturley SL, Yang H;

XX WPI; 1998-032644/03.

XX Yeast acyl-coenzyme A:cholesterol acyltransferase related enzyme I

XX and II - useful to identify inhibitor for treatment of

XX hyperlipidaemia, atherosclerosis and fungal invasion

XX Example 1; Page 27; 11pp; English.

XX Primers KO-3' and KO-5 (see AA01542) were used in a PCR with LEU2

XX gene as template to produce a selectable yeast gene flanked by

XX acyl-coenzyme A:cholesterol acyltransferase II (ARE2) gene

XX sequences (see AA01542). This was used to transform a derivative

CC atherosclerosis and fungal invasion.

XX Sequence 76 BP; 21 A; 17 C; 18 G; 20 T; 0 other;

Alignment Scores:

Pred. No.:	228	Length:	76
Score:	7.00	Matches:	7
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	2.71%	Indels:	0
DB:	19	Gaps:	0

US-09-698-781-3 (1-258) x AA01542 (1-76)

OY 248 LysAlaSerCysAsnCysSer 254

DB 44 AAGCATCTCGCAACTGTCT 24

RESULT 6

ID AAX38442/C

AC AAX38442: standard; DNA: 20 BP.

XX 16-JUN-1999 (first entry)

XX E. coli K12 R2 antisense oligonucleotide 34.

XX Microorganism inhibitor; antisense; nuclease resistant; treatment;

XX ribonucleotide reductase; secA gene; pathological condition; R1 subunit;

XX antimicrobial agent; crop protection; primer; R2 subunit; ss.

XX Synthetic.

XX Escherichia coli.

XX WO9902673-A2.

XX 21-JAN-1999.

XX 10-JUL-1998; 98WO-CA00666.

XX 10-JUL-1997; 97US-0052160.

XX (GENE-) GENESENSE TECHNOLOGIES INC.

XX Dugourd D, Wright JA, Young AH;

XX WPI; 1999-120874/10.

XX New oligonucleotides complementary to RR or SecA genes - useful to

XX inhibit growth of microorganisms

XX Disclosure; Page 22; 103pp; English.

XX This invention describes novel antisense oligonucleotides

XX (AAX3801-X3852) which are nuclease resistant and comprises about 3-50

XX nucleotides complementary to the ribonucleotide reductase gene or the

XX secA gene of a microorganism. The antisense oligonucleotides are used to

XX treat mammalian pathological conditions mediated by microorganisms. The

XX oligonucleotides are particularly useful as antimicrobial agents in crop

XX protection.

XX Sequence 20 BP; 7 A; 6 C; 4 G; 3 T; 0 other;

XX Alignment Scores:

Pred. No.:	638	Length:	20
Score:	6.00	Matches:	6
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	2.33%	Indels:	0
DB:	20	Gaps:	0

XX US-09-698-781-3 (1-258) x AAX38442 (1-20)

OY 159 SerSerTyrlenuValcily 164
 DB 20 AGTCTTATCTGCTCGG 3
 RESULT 7
 ID ABL43741 standard; DNA: 20 BP.
 ABL43741
 AC ABL43741;
 DT 11-APR-2002 (first entry)
 DE Human chromosome 1p36-35 PCR primer SEQ ID NO:785.
 KW Human; chromosome 1p36-35; genetic analysis;
 genome; PCR primer; ss.
 OS Homo sapiens.
 PN JP2001321190-A.
 PD 20-NOV-2001.
 PF 12-MAR-2001; 2001JP-0068285.
 PR 10-MAR-2000; 2000JP-0066716.
 PA (RIKA) RIKAGAKU KENKYUSHO.
 PA (GENO-) GENOTEX YG.
 DR WPI: 2002-144136/19.
 XX Arraying genome clones -
 PS Claim 4; Page 20; 528pp; Japanese.
 CC The present invention describes a method of arraying genome clones. The
 CC method comprises: (a) clones of the genomic libraries contained in
 CC multiwell plates numbered for discrimination are mixed in each of the
 CC multiwell plates; (b) a primer designed based on the chromosome marker
 CC sequence is added to the mixture to carry out an amplification reaction;
 CC (c) a signal corresponding to the marker is detected from the resultant
 CC amplified product to specify the discrimination Nos. of the multiwell
 CC plates containing the clones having said marker sequence; (d) the order
 CC of the markers is changed so that the same discrimination Nos. succeed to
 CC the maximum in the specified discrimination Nos. to array the multiwell
 CC plates; (e) the clones in the multiwell plates of the specified
 CC discrimination Nos. are mixed respectively in each wells of longitudinal
 CC and lateral directions; (f) the mixed clones are cultured and the
 CC resultant cultures are amplified by using the above primer; (g) signals
 CC are detected from the amplified products; (h) the clones in the multiwell
 CC plates are specified from the detected result; and (i) the clones are
 CC reconstituted as the positions on the chromosome and arrayed. The
 CC microarray is useful for gene analysis. ABL42957 to ABL45372 represent
 CC PCR primers for human chromosome 1p36-35 DNA, and ABL45323 to ABL45634
 CC represent PCR primers for human chromosome 21q22.1, which are
 CC specifically claimed for use in the present invention.
 SO Sequence 20 BP; 2 A; 6 C; 4 G; 8 T; 0 other:
 Alignment Scores:
 Pred. No.: 638 Length: 20
 Score: 6.00 Matches: 6
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 2.33% Indels: 0
 DB: 24 Gaps: 0
 US-09-698-781-3 (1-258) x ABL43741 (1-20)
 OY 38 AsProAlaPheThrAla 43
 ||||||||||||||||||

DB 1 GATCTGCGCTTACTGCT 18
 RESULT 8
 ID AAX32872/C.
 AAX32872 standard; DNA: 21 BP.
 AC AAX32872;
 DT 28-JUN-1999 (first entry)
 DE TFO B14 sequence.
 DE TFO B14 sequence.
 KW Triplex-forming oligonucleotide; TFO; promoter region; pre-S gene;
 inhibition; hepatitis B virus; HBV adr subtype; DR region; ss.
 OS Synthetic.
 OS Hepatitis b virus.
 PN WO920641-A1.
 PD 28-APR-1999.
 PF 19-OCT-1998; 98WO-CN00248.
 PR 21-OCT-1997; 97CN-0106667.
 PA (SHAN) SHANGHAI INST BIOCHEMISTRY CHINESE ACAD.
 PA Lu C;
 DR WPI: 1999-288270/24.
 XX Triplex-forming oligonucleotides, useful for, e.g. inhibition of
 PT hepatitis B virus (HBV)
 PS Disclosure; Page 12; 39pp; Chinese.
 CC The invention provides triplex-forming oligonucleotides (TFO) and their
 CC modified derivatives. TFO B1-B5 (AAX32862-866) can bind with the
 CC promoter region of pre-S gene in inhibition of hepatitis B virus (HBV)
 CC adr subtype and TFO B11, B12 and B15 (AAX32868-870) can bind with DR
 CC region of HBV. The oligonucleotides are useful for inhibition of HBV and
 CC as drug in treatment of hepatitis B. Since the length of the
 CC oligonucleotides can be suitably increased, the stability and specificity
 CC of the formed triplex DNA with 2 similar homopoly purine/homopoly
 CC pyrimidine fragments are higher. Triplex formation is specifically
 CC targeting on the HBV gene expression. DNA replication and reproduction,
 CC or to produce (DNA):2:RNA hybrid triplex with target sequence of RNA in
 CC stopping RNA reverse transcription, so there is little effect on the
 CC human cells. Such oligonucleotides are chemically modified by
 CC 3'-terminal monophosphorylation, leading to more significant inhibition
 CC due to their higher stability, and the degradation products of the
 CC modified oligonucleotides are not toxic to the body.
 SO Sequence 21 BP; 5 A; 2 C; 14 G; 0 U; 0 other:
 Alignment Scores:
 Pred. No.: 668 Length: 21
 Score: 6.00 Matches: 6
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 2.33% Indels: 0
 DB: 20 Gaps: 0
 US-09-698-781-3 (1-258) x AAX32872 (1-21)
 OY 116 SerSerAlaProSerSer 121
 ||||||||||||||||||
 DB 18 TCCTCGGCCCTCTCTCT 1
 RESULT 9
 AAF97146/C
 ID AAF97146 standard; DNA: 21 BP.

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XX AC AAF97146;
XX XX
XX 06-JUN-2001 (first entry)
XX DE Human gene single nucleotide polymorphism #1907.
XX XX
XX KM Human: variant thrombospondin 1; variant thrombospondin 4; SNP;
XX KM polymorphism; vascular disease; coronary artery disease; forensics;
XX KM myocardial infarction; atherosclerosis; stroke; venous thromboembolism;
XX KM pulmonary embolism; paternity test; ds.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX FT replace(11,A)
XX FT /tag=
XX FT /standard_name= "single nucleotide polymorphism"
XX PN MO200118250-A2.
XX PD 15-MAR-2001.
XX PF 07-SEP-2000; 2000MO-US24503.
XX PR 10-SEP-1999; 99US-0153357.
XX PR 26-JUL-2000; 2000US-0220947.
XX PR 16-AUG-2000; 2000US-0225724.
XX PA (MHED ) WHITEHEAD INST BIOMEDICAL RES.
XX PA (MILL-) MILLENNIUM PHARM INC.
XX PI Lander ES, Gargill M, Ireland JS, Bolk S, Daley GQ, McCarthy JJ;
XX DR WPI: 2001-226749/23.
XX PT Nucleic acids comprising single nucleotide polymorphisms, useful in
XX PT applications such as forensics, paternity testing, medicine, genetic
XX PT analysis and phenotype correlations to diseases such as diabetes and
XX PT atherosclerosis.
XX PS Examples: Page 178; 242pp; English.
XX XX
XX CC The present invention provides a method of diagnosing a vascular disease
XX CC in an individual, involving determining the sequence at various
XX CC polymorphic sites within the human thrombospondin 1 and thrombospondin 4
XX CC genes. The sequences at a number of polymorphic sites are also provided
XX CC in the specification. In particular, the method can be used in the
XX CC diagnosis of atherosclerosis, myocardial infarction, coronary heart
XX CC disease, stroke, peripheral vascular diseases, venous thromboembolism
XX CC and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also
XX CC useful in forensics, paternity testing, genetic analysis and phenotype
XX CC correlations to diseases. The present sequence is an example of one of
XX CC the human gene SNPs shown in the specification.
XX SQ Sequence 21 BP; 8 A; 4 C; 6 G; 3 T; 0 other:

```

Alignment Scores:

Pred. No.:	668	Length:	21
Score:	6.00	Matches:	6
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	2.33%	Indels:	0
DB:	22	Gaps:	0

US-09-698-781-3 (1-258) x AAF97146 (1-21)

OY 115 MetSerSerAlaProSer 120
 |||||
 DB 18 ATGTCATCTCTCTCTCT 1

RESULT 10
 AA052863/c

```

ID ID AA052863 standard; RNA: 22 BP.
XX AC AA052863;
XX XX
XX 26-MAY-1994 (first entry)
XX DE Cytomegalovirus target sequence 40.
XX XX
XX KM RNA: enzyme; enzymatic RNA molecule; ERN; cleave; RNA; mRNA; hnRNA;
XX KM picornavirus; HIV; immunodeficiency virus; hepatitis B virus; HBV;
XX KM papilloma virus; HPV; Epstein-Barr virus; EBV; TGLV;
XX KM T-cell leukemia virus; hepatitis C virus; HCV; cytomegalovirus;
XX KM influenza virus; HSV; herpes simplex virus; vector; immune response;
XX KM antibody; ribozyme; viral RNA; treatment; ss.
XX OS Synthetic.
XX FM WO9333569-A.
XX FN
XX PD 25-NOV-1993.
XX PF
XX XX
XX 29-APR-1993; 93MO-US04020.
XX PR 11-MAY-1992; 92US-0882689.
XX PR 14-MAY-1992; 92US-0882712.
XX PR 14-MAY-1992; 92US-0882713.
XX PR 14-MAY-1992; 92US-0882714.
XX PR 14-MAY-1992; 92US-0882823.
XX PR 14-MAY-1992; 92US-0882824.
XX PR 14-MAY-1992; 92US-0882886.
XX PR 14-MAY-1992; 92US-0882888.
XX PR 14-MAY-1992; 92US-0882889.
XX PR 14-MAY-1992; 92US-0882921.
XX PR 14-MAY-1992; 92US-0883823.
XX PR 14-MAY-1992; 92US-0883849.
XX PR 14-MAY-1992; 92US-0884073.
XX PR 14-MAY-1992; 92US-0884074.
XX PR 14-MAY-1992; 92US-0884133.
XX PR 14-MAY-1992; 92US-0884422.
XX PR 14-MAY-1992; 92US-0884431.
XX PR 14-MAY-1992; 92US-0884436.
XX PR 14-MAY-1992; 92US-0884521.
XX PR 31-JUL-1992; 92US-0923738.
XX PR 26-AUG-1992; 92US-0936086.
XX PR 18-SEP-1992; 92US-0948359.
XX PR 15-OCT-1992; 92US-0963322.
XX PR 07-DEC-1992; 92US-0987129.
XX PR 07-DEC-1992; 92US-0987130.
XX PR 07-DEC-1992; 92US-0987133.
XX PA (RIBO-) RIBOCYME PHARM INC.
XX XX
XX PI Draper KG, Dudycz LW, Holecsek JT, Macejak DG, Mamline JA;
XX PI MCSv19gen JA;
XX DR WPI: 1993-386599/48.
XX XX
XX PT Enzymatic RNA molecules - used to inhibit viral replication,
XX PT infection and gene expression
XX PS Claim 5; Fig 13; 287pp; English.
XX XX
XX CC The sequences (AA052863-052890) are pref. Cytomegalovirus target
XX CC complementary for enzymatic RNA molecules. The RNA molecules are
XX CC complementary to a substrate binding region in the specified gene
XX CC target. They also have enzymatic activity, in that they specifically
XX CC cleave RNA in the target. The ERNs interfere with viral replication and
XX CC therefore have anti-viral properties. They can be used to attenuate
XX CC viruses to be used in vaccines.
XX SQ Sequence 22 BP; 5 A; 4 C; 10 G; 3 U; 0 other:

```

Alignment Scores:

Pred. No.: 697 Length: 22
 Score: 6.00 Matches: 6
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 2.33% Indels: 0
 DB: 14 Gaps: 0

US-09-698-781-3 (1-258) x AAG52863 (1-22)

QY 116 SerSer1aproseser 121

DB 18 TCCTCAGCACCACCTCC 1

RESULT 11

ABK93528/c

ID ABK93528 standard; DNA: 23 BP.

AC ABK93528;

DT 24-SEP-2002 (first entry)

DE Novel G-protein coupled receptor probe #15.

XX G protein coupled receptor: GPCR, olfactory receptor:

XX cell signal processing disorder; metabolic pathway modulation;

XX immunopathy; atherosclerosis; diabetes; developmental disease;

XX immune disease; taste disorder; scent detectability disorder; obesity;

XX Burkitt's lymphoma; corticosteroid disease; infectious disease; pain;

XX signal transduction pathway disorder; metabolic pathway disorder;

XX acute heart failure; urinary retention; osteoporosis; Crohn's disease;

XX ulcer; allergy; neurological disorder; genetic disorder; transplantation;

XX fertility; pancreatitis; hyperthyroidism; Endometriosis;

XX forensic biology; transgenic animal; probe; ss.

OS Synthetic.

XX WO200240539-A2.

XX 23-MAY-2002.

XX 16-OCT-2001; 2001WO-US32256.

XX 16-OCT-2000; 2000US-240704P.

XX 26-OCT-2000; 2000US-243497P.

XX 31-OCT-2000; 2000US-244542P.

XX 03-NOV-2000; 2000US-245848P.

XX 12-DEC-2000; 2000US-255017P.

XX 17-JAN-2001; 2001US-262159P.

XX 22-JAN-2001; 2001US-263340P.

XX 25-JAN-2001; 2001US-264118P.

XX 12-FEB-2001; 2001US-268225P.

XX 15-FEB-2001; 2001US-289031P.

XX 27-JUL-2001; 2001US-308503P.

XX (CURA-) CURAGEN CORP.

XX kekuda R, Spytek KA, Casman SJ, Zerhusen BD, Li L, Tchernev VT;

PI Colman SD, Ballinger RA, Padigaru M, Wolenc AR, Shenoy SG;

PI Edinger SR, Gerlach V, Gangoli EA, Macdougall JR, Smithson G;

PI Peyman JA, Stone DJ, Gunther E, Ellerman K, Grosse WM;

PI Alsobrook JP, Lepley DM, Burgess CE;

XX WPI; 2002-500205/53.

XX Novel G protein coupled receptor especially olfactory receptor

PT polypeptides and nucleic acids for diagnosing and treating

PT atherosclerosis, cardiomyopathy and diabetes -

XX Example 2; Page 224; 309pp; English.

XX The invention describes an isolated G protein coupled receptor X

CC (GPCR1-12) polypeptide, especially an olfactory receptor. GPCR

CC polypeptides are useful for identifying an agent that binds to the

CC polypeptide and for identifying a candidate substance or ligand molecules

CC interacting with an olfactory receptor polypeptide. The polypeptide, (I)

CC and (II) are also useful for treating diseases and disorders related to

CC cell signal processing and metabolic pathway modulation e.g.

CC cardiomyopathy, atherosclerosis and diabetes, and developmental diseases,

CC immune diseases, taste and scent detectability disorders, Burkitt's

CC lymphoma, corticosteroid disease, signal transduction pathway

CC disorders, metabolic pathway disorders, retinal diseases, metabolic

CC disease, obesity, infectious disease, pain, cancer, Parkinson's

CC disease, acute heart failure, urinary retention, osteoporosis, Crohn's

CC disease, ulcers, allergies, neurological disorders, genetic disorders,

CC transplantation, fertility, pancreatitis, hyperthyroidism and

CC Endometriosis. GPCR sequences are also useful for identifying a cell or

CC tissue type in a biological sample, to amplify DNA sequences from very

CC small biological samples such as tissues e.g. hair or skin or body fluids

CC in forensic biology. Cells comprising (I) are useful for producing

CC non-human transgenic animals for studying the function and/or activity of

CC GPCR protein and for identifying and/or evaluating modulators of GPCR

CC protein activity. This sequence represents a probe used to detect DNA

CC encoding a novel G-protein coupled receptor produced from real time

CC quantitative (RTQ)-PCR.

XX Sequence 23 BP; 5 A; 8 C; 7 G; 3 T; 0 other;

XX

Alignment Scores:

Pred. No.: 727

Score: 6.00

Percent Similarity: 100.00%

Best Local Similarity: 100.00%

Query Match: 2.33%

DB: 24

Gaps: 0

US-09-698-781-3 (1-258) x ABK93528 (1-23)

QY 23 LeuValAlaGlyLeuLeu 28

DB 22 CTGTGCGCGCCTCTCG 5

RESULT 12

ABQ00653

ID ABQ00653 standard; DNA: 24 BP.

AC ABQ00653;

DT 11-JUN-2002 (first entry)

DE Oligonucleotide adapter/capture probe 644.

XX Oligonucleotide array; adapter sequence; probe; ss.

XX Synthetic.

XX WO200216649-A2.

XX 28-FEB-2002.

XX 27-AUG-2001; 2001WO-US26519.

XX 25-AUG-2000; 2000US-227948P.

XX 29-AUG-2000; 2000US-228854P.

XX (ILLU-) ILLUMINA INC.

XX Gundersen K;

XX WPI; 2002-292068/33.

XX Array comprising adapter sequences useful for immobilizing or detecting

PT a target nucleic acid sequence, has different addresses comprising

PT different specific capture probes

XX

PS Claim 1; Page 59; 261pp; English.

XX
 CC The invention relates to an oligonucleotide array (I) comprising at least
 CC 25 different addresses (adapter sequences) with each comprising a
 CC different capture probe selected from a group consisting of the sequences
 CC given in ABQ00010-ABQ13409. (I) is useful for immobilizing a target
 CC nucleic acid sequence by attaching a adapter nucleic acid
 CC (ABQ00010-ABQ13409) to a target nucleic acid to form a modified target
 CC nucleic acid and contacting the modified target nucleic acid with (I).
 CC The steps of above method is useful for detecting a target nucleic acid,
 CC which further comprises detecting the presence of the modified target
 CC nucleic acid.

SO Sequence 24 BP; 3 A; 9 C; 5 G; 7 T; 0 other;

Alignment Scores:

Pred. No.:	756	Length:	24
Score:	6.00	Matches:	6
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	2.33%	Indels:	0
DB:	24	Gaps:	0

US-09-698-781-3 (1-258) x ABQ00653 (1-24)

OY 203 ProCysAlaserCysPro 208
 DB 5 CCGTGGCTTCATGCTCT 22

RESULT 13

ABQ05246
 ID ABQ05246 standard; DNA; 24 BP.

AC ABQ05246;
 XX
 XX 11-JUN-2002 (first entry)

DE Oligonucleotide adapter/capture probe 5237.

DE Oligonucleotide array; adapter sequence; probe; ss.

OS Synthetic.

XX
 XX WO200216649-A2.

PN
 XX
 XX 28-FEB-2002.

PD
 XX
 XX 27-AUG-2001; 2001WO-US26519.

PF
 XX
 XX 25-AUG-2000; 2000US-227948P.

PR
 XX
 XX 29-AUG-2000; 2000US-228654P.

PS (ILLU-) ILLUMINA INC.

PI Gunderson K;
 XX
 XX WPI: 2002-292068/33.

DR
 XX
 XX Array comprising adapter sequences useful for immobilizing or detecting
 PT a target nucleic acid sequence, has different addresses comprising
 PT different specific capture probes

PS Claim 1; Page 154; 261pp; English.

XX
 CC The invention relates to an oligonucleotide array (I) comprising at least
 CC 25 different addresses (adapter sequences) with each comprising a
 CC different capture probe selected from a group consisting of the sequences
 CC given in ABQ00010-ABQ13409. (I) is useful for immobilizing a target
 CC nucleic acid sequence by attaching a adapter nucleic acid
 CC (ABQ00010-ABQ13409) to a target nucleic acid to form a modified target
 CC nucleic acid and contacting the modified target nucleic acid with (I).
 CC The steps of above method is useful for detecting a target nucleic acid,
 CC which further comprises detecting the presence of the modified target

CC nucleic acid.

XX
 SO Sequence 24 BP; 3 A; 9 C; 5 G; 7 T; 0 other;

Alignment Scores:

Pred. No.:	756	Length:	24
Score:	6.00	Matches:	6
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	2.33%	Indels:	0
DB:	24	Gaps:	0

US-09-698-781-3 (1-258) x ABQ05246 (1-24)

OY 203 ProCysAlaserCysPro 208
 DB 5 CCGTGGCTTCATGCTCT 22

RESULT 14

ABQ05287/c
 ID ABQ05287 standard; DNA; 24 BP.

AC ABQ05287;
 XX
 XX 11-JUN-2002 (first entry)

DE Oligonucleotide adapter/capture probe 5278.

DE Oligonucleotide array; adapter sequence; probe; ss.

OS Synthetic.

XX
 XX WO200216649-A2.

PN
 XX
 XX 28-FEB-2002.

PD
 XX
 XX 27-AUG-2001; 2001WO-US26519.

PF
 XX
 XX 25-AUG-2000; 2000US-227948P.

PR
 XX
 XX 29-AUG-2000; 2000US-228654P.

PS (ILLU-) ILLUMINA INC.

PI Gunderson K;
 XX
 XX WPI: 2002-292068/33.

DR
 XX
 XX Array comprising adapter sequences useful for immobilizing or detecting
 PT a target nucleic acid sequence, has different addresses comprising
 PT different specific capture probes

PS Claim 1; Page 154; 261pp; English.

XX
 CC The invention relates to an oligonucleotide array (I) comprising at least
 CC 25 different addresses (adapter sequences) with each comprising a
 CC different capture probe selected from a group consisting of the sequences
 CC given in ABQ00010-ABQ13409. (I) is useful for immobilizing a target
 CC nucleic acid sequence by attaching a adapter nucleic acid
 CC (ABQ00010-ABQ13409) to a target nucleic acid to form a modified target
 CC nucleic acid and contacting the modified target nucleic acid with (I).
 CC The steps of above method is useful for detecting a target nucleic acid,
 CC which further comprises detecting the presence of the modified target
 CC nucleic acid.

SO Sequence 24 BP; 7 A; 5 C; 9 G; 3 T; 0 other;

Alignment Scores:

Pred. No.:	756	Length:	24
Score:	6.00	Matches:	6
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	2.33%	Indels:	0
DB:	24	Gaps:	0

US-09-698-781-3 (1-258) x ABQ05287 (1-24)

OY 203 ProcysalaserCysPro 208
 DB 20 CCGTGGCTTCATGTCCT 3

RESULT 15
 ABQ11574
 ID ABQ11574 standard; DNA; 24 BP.
 AC ABQ11574;
 XX
 DT 11-JUN-2002 (first entry)
 XX
 DE Oligonucleotide adapter/capture probe 11565.
 XX
 KM Oligonucleotide array; adapter sequence; probe; ss.
 XX
 OS Synthetic.
 XX
 PN W0200216649-A2.
 XX
 PD 28-FEB-2002.
 XX
 PF 27-AUG-2001; 2001WO-US26519.
 XX
 PR 25-AUG-2000; 2000US-227948P.
 PR 29-AUG-2000; 2000US-228854P.
 XX
 PA (ILLU-) ILLUMINA INC.
 XX
 PI Gunderson K;
 XX
 DR WPI: 2002-292068/33.
 XX
 PT Array comprising adapter sequences useful for immobilizing or detecting
 a target nucleic acid sequence, has different addresses comprising
 PT different specific capture probes
 XX
 PS Claim 1; Page 232; 261pp; English.

CC The invention relates to an oligonucleotide array (I) comprising at least
 CC 25 different addresses (adapter sequences) with each comprising a
 CC different capture probe selected from a group consisting of the sequences
 CC given in ABQ00010-ABQ13409. (I) is useful for immobilizing a target
 CC nucleic acid sequence by attaching a adapter nucleic acid
 CC (ABQ00010-ABQ13409) to a target nucleic acid to form a modified target
 CC nucleic acid and contacting the modified target nucleic acid with (I).
 CC The steps of above method is useful for detecting a target nucleic acid,
 CC which further comprises detecting the presence of the modified target
 CC nucleic acid.

XX
 SQ Sequence 24 BP; 3 A; 9 C; 5 G; 7 T; 0 other;

Alignment Scores:
 Pred. No.: 756 Length: 24
 Score: 6.00 Matches: 6
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 2.33% Indels: 0
 DB: 24 Gaps: 0

US-09-698-781-3 (1-258) x ABQ11574 (1-24)

OY 203 ProcysalaserCysPro 208
 DB 5 CCGTGGCTTCATGTCCT 22

RESULT 16
 ABQ11615/C
 ID ABQ11615 standard; DNA; 24 BP.
 XX

AC ABQ11615;
 XX
 DT 11-JUN-2002 (first entry)
 XX
 DE Oligonucleotide adapter/capture probe 11606.
 XX
 KM Oligonucleotide array; adapter sequence; probe; ss.
 XX
 OS Synthetic.
 XX
 PN W0200216649-A2.
 XX
 PD 28-FEB-2002.
 XX
 PF 27-AUG-2001; 2001WO-US26519.
 XX
 PR 25-AUG-2000; 2000US-227948P.
 PR 29-AUG-2000; 2000US-228854P.
 XX
 PA (ILLU-) ILLUMINA INC.
 XX
 PI Gunderson K;
 XX
 DR WPI: 2002-292068/33.
 XX
 PT Array comprising adapter sequences useful for immobilizing or detecting
 a target nucleic acid sequence, has different addresses comprising
 PT different specific capture probes
 XX
 PS Claim 1; Page 232; 261pp; English.

CC The invention relates to an oligonucleotide array (I) comprising at least
 CC 25 different addresses (adapter sequences) with each comprising a
 CC different capture probe selected from a group consisting of the sequences
 CC given in ABQ00010-ABQ13409. (I) is useful for immobilizing a target
 CC nucleic acid sequence by attaching a adapter nucleic acid
 CC (ABQ00010-ABQ13409) to a target nucleic acid to form a modified target
 CC nucleic acid and contacting the modified target nucleic acid with (I).
 CC The steps of above method is useful for detecting a target nucleic acid,
 CC which further comprises detecting the presence of the modified target
 CC nucleic acid.

XX
 SQ Sequence 24 BP; 7 A; 5 C; 9 G; 3 T; 0 other;

Alignment Scores:
 Pred. No.: 756 Length: 24
 Score: 6.00 Matches: 6
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 2.33% Indels: 0
 DB: 24 Gaps: 0

US-09-698-781-3 (1-258) x ABQ11615 (1-24)

OY 203 ProcysalaserCysPro 208
 DB 20 CCGTGGCTTCATGTCCT 3

RESULT 17
 AAV53748/C
 ID AAV53748 standard; DNA; 25 BP.
 XX
 AC AAV53748;
 XX
 DT 20-NOV-1998 (first entry)
 XX
 DE Nucleotide sequence of the linkage analysis PCR primer 10.
 XX
 KM PCR; primer; amplification; linkage analysis; genetic marker; ss.
 XX
 OS progressive rod-cone degeneration disease trait; canine; chromosome 9.
 OS Canis sp.

XX US5804388-A.
 PN 08-SEP-1998.
 PD 10-JUL-1997; 97US-0891463.
 PF 10-JUL-1997; 97US-0891463.
 PR 10-JUL-1997; 97US-0891463.
 XX (CORR) CORNELL RES FOUND INC.
 PA Acland G, Aguirre G, Ray K;
 PI WPI: 1998-505644/43.
 DR
 XX Detection of canine genetic markers - linked with progressive
 PT rod-cone degeneration disease
 XX
 PS Claim 10; Column 23; 25pp; English.
 XX
 CC This is the nucleotide sequence of a PCR primer used for linkage
 CC analysis in the method of the invention. This involves the detection
 CC of genetic markers that are genetically linked and co-segregating with
 CC a progressive rod-cone degeneration disease trait in canines comprising
 CC analysing chromosome 9 for polymorphisms in the prod-informative region.
 CC The method is used to determine whether a dog has a mutated progressive
 CC rod-cone degeneration disease gene locus in one or both alleles.
 CC Polymorphism is analysed by using primers in a nucleic acid
 CC amplification reaction containing chromosome 9 to obtain an amplified
 CC product.
 XX
 SQ Sequence 25 BP; 7 A; 7 C; 5 G; 6 T; 0 other;
 Alignment Scores:
 Pred. No.: 785 Length: 25
 Score: 6.00 Matches: 6
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 2.33% Indels: 0
 DB: 19 Gaps: 0
 US-09-698-781-3 (1-258) x AAV53748 (1-25)
 OY 195 TyValPProTyGluGln 200
 DB 22 TATGTGCTTATGACCA 5
 RESULT 18
 AB064866
 ID AB064866 standard; DNA; 25 BP.
 XX
 AC AB064866;
 XX
 DT 20-AUG-2002 (first entry)
 XX
 DE Human K10M1a portion (AB063232) probe # 1579.
 XX
 KW Human; K10M1a; K10M1; kidney tumour overexpressed membrane; cytosstatic;
 KW gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;
 KW kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200224750-A2.
 PD 28-MAR-2002.
 XX
 PF 21-SEP-2001; 2001WO-US29656.
 XX
 PR 21-SEP-2000; 2000US-234687P.
 PR 27-SEP-2000; 2000US-236359P.
 PR 04-OCT-2000; 2000GB-0024263.
 PR 30-JAN-2001; 2001WO-US00661.

PR 30-JAN-2001; 2001WO-US00662.
 PR 30-JAN-2001; 2001WO-US00663.
 PR 30-JAN-2001; 2001WO-US00664.
 PR 30-JAN-2001; 2001WO-US00665.
 PR 30-JAN-2001; 2001WO-US00666.
 PR 30-JAN-2001; 2001WO-US00667.
 PR 30-JAN-2001; 2001WO-US00668.
 PR 30-JAN-2001; 2001WO-US00669.
 PR 30-JAN-2001; 2001WO-US00670.
 PR 23-MAY-2001; 2001US-0864761.
 PR 28-AUG-2001; 2001US-315676P.
 XX
 PA (ABOM-) ABOMICA INC.
 XX
 PI Zhang J;
 XX
 DR WPI: 2002-479509/51.
 XX
 PT New human kidney tumor overexpressed membrane (K10M1) protein and
 PT nucleic acids encoding the protein, useful for treating subjects having
 PT defects in K10M1 which can manifest as cancer of the kidney, or as a
 PT disorder of e.g., liver or bone
 XX
 PS Example 2; Page 364; 418pp; English.
 XX
 CC The invention relates to a novel isolated nucleic acid encoding human
 CC K10M1 (kidney tumour overexpressed membrane) protein. The protein of the
 CC invention has cytosstatic activity. The nucleotide may have a use in gene
 CC therapy. The K10M1 nucleic acids may be used to diagnose, treat or
 CC monitor a disease caused by altered expression of human K10M1.
 CC Compositions comprising the nucleic acids, proteins or antibodies may be
 CC used to treat subjects having defects in K10M1 which can manifest as
 CC cancer of the kidney, as well as a disorder of liver, bone marrow, brain,
 CC heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta
 CC function. The sequence represents a probe used in the invention to
 CC scan the nt 1-1001 portion of human K10M1a (AB063232).
 XX
 SQ Sequence 25 BP; 3 A; 9 C; 5 G; 8 T; 0 other;
 Alignment Scores:
 Pred. No.: 785 Length: 25
 Score: 6.00 Matches: 6
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 2.33% Indels: 0
 DB: 24 Gaps: 0
 US-09-698-781-3 (1-258) x AB064866 (1-25)
 OY 202 AlaProCysAlaSerCys 207
 DB 8 GCTCCCTGCGCCTCTGT 25
 RESULT 19
 AB064867
 ID AB064867 standard; DNA; 25 BP.
 XX
 AC AB064867;
 XX
 DT 20-AUG-2002 (first entry)
 XX
 DE Human K10M1a portion (AB063232) probe # 1580.
 XX
 KW Human; K10M1a; K10M1; kidney tumour overexpressed membrane; cytosstatic;
 KW gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;
 KW kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200224750-A2.
 PD 28-MAR-2002.
 XX

PF 21-SEP-2001; 2001WO-US29656.
 XX
 PR 21-SEP-2000; 2000US-234687P.
 PR 27-SEP-2000; 2000US-236359P.
 PR 04-OCT-2000; 2000GB-0024263.
 PR 30-JAN-2001; 2001WO-US00661.
 PR 30-JAN-2001; 2001WO-US00662.
 PR 30-JAN-2001; 2001WO-US00663.
 PR 30-JAN-2001; 2001WO-US00664.
 PR 30-JAN-2001; 2001WO-US00665.
 PR 30-JAN-2001; 2001WO-US00666.
 PR 30-JAN-2001; 2001WO-US00667.
 PR 30-JAN-2001; 2001WO-US00668.
 PR 30-JAN-2001; 2001WO-US00669.
 PR 30-JAN-2001; 2001WO-US00670.
 PR 23-MAY-2001; 2001US-0864761.
 PR 28-AUG-2001; 2001US-315676P.
 XX
 PA (AEOM-) AEOMICA INC.
 XX
 PI Zhang J;
 XX
 DR WPI: 2002-479509/51.
 XX
 PS Example 2; Page 364; 418bp; English.
 XX
 PT New human kidney tumor overexpressed membrane (KTOM1) protein and
 PT nucleic acids encoding the protein, useful for treating subjects having
 PT defects in KTOM1 which can manifest as cancer of the kidney, or as a
 PT disorder of e.g., liver or bone
 XX
 CC The invention relates to a novel isolated nucleic acid encoding human
 CC KTOM1 (kidney tumor overexpressed membrane) protein. The protein of the
 CC invention has cytosolic activity. The nucleotide may have a use in gene
 CC therapy. The KTOM1 nucleic acids may be used to diagnose, treat or
 CC monitor a disease caused by altered expression of human KTOM1.
 CC Compositions comprising the nucleic acids, proteins or antibodies may be
 CC used to treat subjects having defects in KTOM1 which can manifest as
 CC cancer of the kidney, as well as a disorder of liver, bone marrow, brain,
 CC heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta
 CC function. The sequence represents a probe used in the invention to
 CC scan the nt 1-1001 portion of human KTOM1a (AB063232).
 XX
 SQ Sequence 25 BP; 3 A; 10 C; 5 G; 7 T; 0 other;
 Alignment Scores:
 Pred. No.: 785 Length: 25
 Score: 6.00 Matches: 6
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 2.33% Indels: 0
 DB: 24 Gaps: 0
 US-09-698-781-3 (1-258) x AB064867 (1-25)
 QY 202 AlaprocysalaserCys 207
 DB 7 GCTCCTGCGCCTCTGT 24
 RESULT 20
 ID AB064868 standard; DNA; 25 BP.
 XX
 AC AB064868;
 XX
 DT 20-AUG-2002 (first entry)
 XX
 DE Human KTOM1a portion (AB063232) probe # 1581.
 XX
 KM Human; KTOM1a; KTOM1; kidney tumor overexpressed membrane; cytosolic;
 KM gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;
 KM kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.
 XX

OS Homo sapiens.
 XX
 PN WO200224750-A2.
 XX
 PD 28-MAR-2002.
 XX
 PF 21-SEP-2001; 2001WO-US29656.
 XX
 PR 21-SEP-2000; 2000US-234687P.
 PR 27-SEP-2000; 2000US-236359P.
 PR 04-OCT-2000; 2000GB-0024263.
 PR 30-JAN-2001; 2001WO-US00661.
 PR 30-JAN-2001; 2001WO-US00662.
 PR 30-JAN-2001; 2001WO-US00663.
 PR 30-JAN-2001; 2001WO-US00664.
 PR 30-JAN-2001; 2001WO-US00665.
 PR 30-JAN-2001; 2001WO-US00666.
 PR 30-JAN-2001; 2001WO-US00667.
 PR 30-JAN-2001; 2001WO-US00668.
 PR 30-JAN-2001; 2001WO-US00669.
 PR 30-JAN-2001; 2001WO-US00670.
 PR 23-MAY-2001; 2001US-0864761.
 PR 28-AUG-2001; 2001US-315676P.
 XX
 PA (AEOM-) AEOMICA, INC.
 XX
 PI Zhang J;
 XX
 DR WPI: 2002-479509/51.
 XX
 PS Example 2; Page 365; 418bp; English.
 XX
 PT New human kidney tumor overexpressed membrane (KTOM1) protein and
 PT nucleic acids encoding the protein, useful for treating subjects having
 PT defects in KTOM1 which can manifest as cancer of the kidney, or as a
 PT disorder of e.g., liver or bone
 XX
 CC The invention relates to a novel isolated nucleic acid encoding human
 CC KTOM1 (kidney tumor overexpressed membrane) protein. The protein of the
 CC invention has cytosolic activity. The nucleotide may have a use in gene
 CC therapy. The KTOM1 nucleic acids may be used to diagnose, treat or
 CC monitor a disease caused by altered expression of human KTOM1.
 CC Compositions comprising the nucleic acids, proteins or antibodies may be
 CC used to treat subjects having defects in KTOM1 which can manifest as
 CC cancer of the kidney, as well as a disorder of liver, bone marrow, brain,
 CC heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta
 CC function. The sequence represents a probe used in the invention to
 CC scan the nt 1-1001 portion of human KTOM1a (AB063232).
 XX
 SQ Sequence 25 BP; 4 A; 10 C; 5 G; 6 T; 0 other;
 Alignment Scores:
 Pred. No.: 785 Length: 25
 Score: 6.00 Matches: 6
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 2.33% Indels: 0
 DB: 24 Gaps: 0
 US-09-698-781-3 (1-258) x AB064868 (1-25)
 QY 202 AlaprocysalaserCys 207
 DB 6 GCTCCTGCGCCTCTGT 23
 RESULT 21
 ID AB064869 standard; DNA; 25 BP.
 XX
 AC AB064869;
 XX
 DT 20-AUG-2002 (first entry)
 XX

DE Human Ktoma portion (AB063232) probe # 1582.
 XX
 KW Human: Ktoma: Ktoma: kidney tumour overexpressed membrane; cytosolic;
 KW gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;
 KW kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200224750-A2.
 XX
 PD 28-MAR-2002.
 XX
 PF 21-SEP-2001; 2001WO-US29656.
 XX
 PR 21-SEP-2000; 2000US-234687P.
 PR 27-SEP-2000; 2000US-236359P.
 PR 04-OCT-2000; 2000GB-0024263.
 PR 30-JAN-2001; 2001WO-US00661.
 PR 30-JAN-2001; 2001WO-US00662.
 PR 30-JAN-2001; 2001WO-US00663.
 PR 30-JAN-2001; 2001WO-US00664.
 PR 30-JAN-2001; 2001WO-US00665.
 PR 30-JAN-2001; 2001WO-US00666.
 PR 30-JAN-2001; 2001WO-US00667.
 PR 30-JAN-2001; 2001WO-US00668.
 PR 30-JAN-2001; 2001WO-US00669.
 PR 23-MAY-2001; 2001US-0864761.
 PR 28-AUG-2001; 2001US-315676P.
 XX
 PA (AEOM-) AEOMICA INC.
 XX
 PI Zhang J.
 XX
 DR WPI: 2002-479509/51.
 XX
 PT New human kidney tumor overexpressed membrane (Ktoma) protein and
 PT nucleic acids encoding the protein, useful for treating subjects having
 PT defects in Ktoma which can manifest as cancer of the kidney, or as a
 PT disorder of e.g., liver or bone -
 XX
 XX Example 2; Page 365; 418pp; English.
 XX
 PS The invention relates to a novel isolated nucleic acid encoding human
 CC Ktoma (kidney tumour overexpressed membrane) protein. The protein of the
 CC invention has cytosolic activity. The nucleotide may have a use in gene
 CC therapy. The Ktoma nucleic acids may be used to diagnose, treat or
 CC monitor a disease caused by altered expression of human Ktoma.
 CC Compositions comprising the nucleic acids, proteins or antibodies may be
 CC used to treat subjects having defects in Ktoma which can manifest as
 CC cancer of the kidney, as well as a disorder of liver, bone marrow, brain,
 CC heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta
 CC function. The sequence represents a probe used in the invention to
 CC scan the nt 1-1001 portion of human Ktoma (AB063232).
 XX
 SQ Sequence 25 BP; 3 A; 10 C; 6 G; 6 T; 0 other:
 Alignment Scores:
 Pred. No.: 785 Length: 25
 Score: 6.00 Matches: 6
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 2.33% Indels: 0
 DB: 24 Gaps: 0
 US-09-698-781-3 (1-258) x AB064869 (1-25)
 OY 202 AlaprocylaserCys 207
 DB 5 GCTCCCTGGCCTCTGT 22
 RESULT 22
 AB064870

ID AB064870 standard; DNA; 25 BP.
 XX
 AC AB064870;
 XX
 DT 20-AUG-2002 (first entry)
 XX
 DE Human Ktoma portion (AB063232) probe # 1583.
 XX
 KW Human: Ktoma: Ktoma: kidney tumour overexpressed membrane; cytosolic;
 KW gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;
 KW kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200224750-A2.
 XX
 PD 28-MAR-2002.
 XX
 PF 21-SEP-2001; 2001WO-US29656.
 XX
 PR 21-SEP-2000; 2000US-234687P.
 PR 27-SEP-2000; 2000US-236359P.
 PR 04-OCT-2000; 2000GB-0024263.
 PR 30-JAN-2001; 2001WO-US00661.
 PR 30-JAN-2001; 2001WO-US00662.
 PR 30-JAN-2001; 2001WO-US00663.
 PR 30-JAN-2001; 2001WO-US00664.
 PR 30-JAN-2001; 2001WO-US00665.
 PR 30-JAN-2001; 2001WO-US00666.
 PR 30-JAN-2001; 2001WO-US00667.
 PR 30-JAN-2001; 2001WO-US00668.
 PR 30-JAN-2001; 2001WO-US00669.
 PR 23-MAY-2001; 2001US-0864761.
 PR 28-AUG-2001; 2001US-315676P.
 XX
 PA (AEOM-) AEOMICA INC.
 XX
 PI Zhang J.
 XX
 DR WPI: 2002-479509/51.
 XX
 PT New human kidney tumor overexpressed membrane (Ktoma) protein and
 PT nucleic acids encoding the protein, useful for treating subjects having
 PT defects in Ktoma which can manifest as cancer of the kidney, or as a
 PT disorder of e.g., liver or bone -
 XX
 XX Example 2; Page 365; 418pp; English.
 XX
 PS The invention relates to a novel isolated nucleic acid encoding human
 CC Ktoma (kidney tumour overexpressed membrane) protein. The protein of the
 CC invention has cytosolic activity. The nucleotide may have a use in gene
 CC therapy. The Ktoma nucleic acids may be used to diagnose, treat or
 CC monitor a disease caused by altered expression of human Ktoma.
 CC Compositions comprising the nucleic acids, proteins or antibodies may be
 CC used to treat subjects having defects in Ktoma which can manifest as
 CC cancer of the kidney, as well as a disorder of liver, bone marrow, brain,
 CC heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta
 CC function. The sequence represents a probe used in the invention to
 CC scan the nt 1-1001 portion of human Ktoma (AB063232).
 XX
 SQ Sequence 25 BP; 3 A; 11 C; 5 G; 6 T; 0 other:
 Alignment Scores:
 Pred. No.: 785 Length: 25
 Score: 6.00 Matches: 6
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 2.33% Indels: 0
 DB: 24 Gaps: 0
 US-09-698-781-3 (1-258) x AB064870 (1-25)

```

Oy 202 AlaprocysalaserCys 207
Db 4 GCTCCTGCGCCTCTTGT 21
RESULT 23
AB064871
ID AB064871 standard; DNA: 25 BP.
AC AB064871:
DE 20-AUG-2002 (first entry)
DE Human KtOM1a portion (AB063232) probe # 1584.
KW Human; KtOM1a; KtOM1; kidney tumour overexpressed membrane; cytosolic;
KW gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;
KW kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.
XX Homo sapiens.
XX
XX MO200224750-A2.
XX PD 28-MAR-2002.
XX PF 21-SEP-2001; 2001WO-US29656.
XX PR 21-SEP-2000; 2000US-234687P.
XX PR 27-SEP-2000; 2000US-236359P.
XX PR 04-OCT-2000; 2000GB-0024263.
XX PR 30-JAN-2001; 2001WO-US00661.
XX PR 30-JAN-2001; 2001WO-US00662.
XX PR 30-JAN-2001; 2001WO-US00663.
XX PR 30-JAN-2001; 2001WO-US00664.
XX PR 30-JAN-2001; 2001WO-US00665.
XX PR 30-JAN-2001; 2001WO-US00666.
XX PR 30-JAN-2001; 2001WO-US00667.
XX PR 30-JAN-2001; 2001WO-US00668.
XX PR 30-JAN-2001; 2001WO-US00669.
XX PR 30-JAN-2001; 2001WO-US00670.
XX PR 23-MAY-2001; 2001US-0864761.
XX PR 28-AUG-2001; 2001US-315676P.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Zhang J;
XX WPI: 2002-479509/51.
XX
XX New human kidney tumor overexpressed membrane (KtOM1) protein and
XX nucleic acids encoding the protein, useful for treating subjects having
XX defects in KtOM1 which can manifest as cancer of the kidney, or as a
XX disorder of e.g., liver or bone
XX
XX Example 2; Page 365; 418bp; English.
XX
XX The invention relates to a novel isolated nucleic acid encoding human
XX KtOM1 (kidney tumour overexpressed membrane) protein. The protein of the
XX invention has cytosolic activity. The nucleotide may have a use in gene
XX therapy. The KtOM1 nucleic acids may be used to diagnose, treat or
XX monitor a disease caused by altered expression of human KtOM1.
XX Compositions comprising the nucleic acids, proteins or antibodies may be
XX used to treat subjects having defects in KtOM1 which can manifest as
XX cancer of the kidney, as well as a disorder of liver, bone marrow, brain,
XX heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta
XX function. The sequence represents a probe used in the invention to
XX scan the nt 1-1001 portion of human KtOM1a (AB063232).
XX
XX Sequence 25 BP; 2 A; 11 C; 5 G; 7 T; 0 other:
XX
XX Alignment Scores:
XX Pred. No.: 785
XX Score: 6.00
XX Percent Similarity: 100.00%
XX Length: 25
XX Matches: 6
XX Conservative: 0

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Best Local Similarity: 100.00%
Query Match: 2.33%
Mismatch: 0
Indels: 0
Gaps: 0
US-09-698-781-3 (1-258) x AB064871 (1-25)
Oy 202 AlaprocysalaserCys 207
Db 3 GCTCCTGCGCCTCTTGT 20
RESULT 24
AB064872
ID AB064872 standard; DNA: 25 BP.
AC AB064872:
DE 20-AUG-2002 (first entry)
DE Human KtOM1a portion (AB063232) probe # 1585.
KW Human; KtOM1a; KtOM1; kidney tumour overexpressed membrane; cytosolic;
KW gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;
KW kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.
XX Homo sapiens.
XX
XX MO200224750-A2.
XX PD 28-MAR-2002.
XX PF 21-SEP-2001; 2001WO-US29656.
XX PR 21-SEP-2000; 2000US-234687P.
XX PR 27-SEP-2000; 2000US-236359P.
XX PR 04-OCT-2000; 2000GB-0024263.
XX PR 30-JAN-2001; 2001WO-US00661.
XX PR 30-JAN-2001; 2001WO-US00662.
XX PR 30-JAN-2001; 2001WO-US00663.
XX PR 30-JAN-2001; 2001WO-US00664.
XX PR 30-JAN-2001; 2001WO-US00665.
XX PR 30-JAN-2001; 2001WO-US00666.
XX PR 30-JAN-2001; 2001WO-US00667.
XX PR 30-JAN-2001; 2001WO-US00668.
XX PR 30-JAN-2001; 2001WO-US00669.
XX PR 30-JAN-2001; 2001WO-US00670.
XX PR 23-MAY-2001; 2001US-0864761.
XX PR 28-AUG-2001; 2001US-315676P.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Zhang J;
XX WPI: 2002-479509/51.
XX
XX New human kidney tumor overexpressed membrane (KtOM1) protein and
XX nucleic acids encoding the protein, useful for treating subjects having
XX defects in KtOM1 which can manifest as cancer of the kidney, or as a
XX disorder of e.g., liver or bone
XX
XX Example 2; Page 365; 418bp; English.
XX
XX The invention relates to a novel isolated nucleic acid encoding human
XX KtOM1 (kidney tumour overexpressed membrane) protein. The protein of the
XX invention has cytosolic activity. The nucleotide may have a use in gene
XX therapy. The KtOM1 nucleic acids may be used to diagnose, treat or
XX monitor a disease caused by altered expression of human KtOM1.
XX Compositions comprising the nucleic acids, proteins or antibodies may be
XX used to treat subjects having defects in KtOM1 which can manifest as
XX cancer of the kidney, as well as a disorder of liver, bone marrow, brain,
XX heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta
XX function. The sequence represents a probe used in the invention to
XX scan the nt 1-1001 portion of human KtOM1a (AB063232).
XX

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SQ Sequence 25 BP; 2 A; 11 C; 5 G; 7 T; 0 other;
 Alignment Scores:
 Pred. No.: 785 Length: 25
 Score: 6.00 Matches: 6
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 2.33% Indels: 0
 DB: 24 Gaps: 0
 US-09-698-781-3 (1-258) x AB064872 (1-25)
 QY 202 AlaprocysAlasercys 207
 |||||
 DB 2 GTCCCTGCGCCTCTGT 19
 RESULT 25
 AB064873
 ID AB064873 standard; DNA; 25 BP.
 AC AB064873;
 XX
 DT 20-AUG-2002 (first entry)
 XX
 DE Human Ktoma portion (AB063232) probe # 1586.
 XX
 KW Human; Ktoma; Ktoma; kidney tumour overexpressed membrane; cytosolic;
 KW gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;
 KW kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200224750-A2.
 XX
 PD 28-MAR-2002.
 XX
 PF 21-SEP-2001; 2001WO-US29656.
 XX
 PR 21-SEP-2000; 2000US-234687P.
 PR 27-SEP-2000; 2000US-236359P.
 PR 04-OCT-2000; 2000GB-0024263.
 PR 30-JAN-2001; 2001WO-US00661.
 PR 30-JAN-2001; 2001WO-US00662.
 PR 30-JAN-2001; 2001WO-US00663.
 PR 30-JAN-2001; 2001WO-US00664.
 PR 30-JAN-2001; 2001WO-US00665.
 PR 30-JAN-2001; 2001WO-US00666.
 PR 30-JAN-2001; 2001WO-US00667.
 PR 30-JAN-2001; 2001WO-US00668.
 PR 30-JAN-2001; 2001WO-US00669.
 PR 23-MAR-2001; 2001US-0864761.
 PR 28-AUG-2001; 2001US-315676P.
 XX
 PA (AEOM-) AEOMICA INC.
 XX
 PI Zhang J;
 XX
 DR WPI: 2002-479509/51.
 XX
 PT New human kidney tumor overexpressed membrane (Ktoma) protein and
 PT nucleic acids encoding the protein, useful for treating subjects having
 PT defects in Ktoma, which can manifest as cancer of the kidney, or as a
 PT disorder of e.g., liver or bone
 XX
 PS Example 2; Page 365; 418pp; English.
 CC The invention relates to a novel isolated nucleic acid encoding human
 CC Ktoma (kidney tumor overexpressed membrane) protein. The protein of the
 CC invention has cytosolic activity. The nucleotide may have a use in gene
 CC therapy. The Ktoma nucleic acids may be used to diagnose, treat or
 CC monitor a disease caused by altered expression of human Ktoma.
 CC Compositions comprising the nucleic acids, proteins or antibodies may be

CC used to treat subjects having defects in Ktoma which can manifest as
 CC cancer of the kidney, as well as a disorder of liver, bone marrow, brain,
 CC heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta
 CC function. The sequence represents a probe used in the invention to
 CC scan the nt 1-1001 portion of human Ktoma (AB063232).
 XX
 SQ Sequence 25 BP; 1 A; 11 C; 5 G; 8 T; 0 other;
 Alignment Scores:
 Pred. No.: 785 Length: 25
 Score: 6.00 Matches: 6
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 2.33% Indels: 0
 DB: 24 Gaps: 0
 US-09-698-781-3 (1-258) x AB064873 (1-25)
 QY 202 AlaprocysAlasercys 207
 |||||
 DB 1 GTCCTGCGCCTCTGT 18
 RESULT 26
 AB013110
 ID AB013110 standard; DNA; 25 BP.
 AC AB013110;
 XX
 DT 11-JUN-2002 (first entry)
 XX
 DE Oligonucleotide adapter/capture probe 13101.
 XX
 KW Oligonucleotide adapter; adapter sequence; probe; ss.
 XX
 OS Synthetic.
 XX
 PN WO200216649-A2.
 XX
 PD 28-FEB-2002.
 XX
 PF 27-AUG-2001; 2001WO-US26519.
 XX
 PR 25-AUG-2000; 2000US-227948P.
 PR 29-AUG-2000; 2000US-228854P.
 XX
 PA (ILLU-) ILLUMINA INC.
 XX
 PI Gunderson K;
 XX
 DR WPI: 2002-292068/33.
 XX
 PT Array comprising adapter sequences useful for immobilizing or detecting
 PT a target nucleic acid sequence, has different addresses comprising
 PT different specific capture probes
 XX
 PS Claim 1; Page 251; 261pp; English.
 CC The invention relates to an oligonucleotide array (I) comprising at least
 CC 25 different addresses (adapter sequences) with each comprising a
 CC different capture probe selected from a group consisting of the sequences
 CC given in ABQ00010-ABQ13409. (I) is useful for immobilizing a target
 CC nucleic acid sequence by attaching a adapter nucleic acid
 CC (ABQ00010-ABQ13409) to a target nucleic acid to form a modified target
 CC nucleic acid and contacting the modified target nucleic acid with (I).
 CC The steps of above method is useful for detecting a target nucleic acid,
 CC which further comprises detecting the presence of the modified target
 CC nucleic acid.
 CC
 SQ Sequence 25 BP; 3 A; 9 C; 5 G; 8 T; 0 other;
 Alignment Scores:
 Pred. No.: 785 Length: 25
 Score: 6.00 Matches: 6

KM PCR primer; ss.
 XX
 OS Synthetic.
 XX
 PN W09733985-A1.
 XX
 PD 18-SEP-1997.
 XX
 PF 14-MAR-1996; 96WO-US03561.
 XX
 PR 14-MAR-1996; 96WO-US03561.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 PA (SMK) SMITHKLINE BEECHAM CORP.
 XX
 PI Dillon PJ, Vockley JG;
 XX
 DR WPI; 1997-470867/43.
 XX
 PT Polynucleotide encoding human arginase II - useful to treat,
 PT diagnose and monitor, e.g. urea cycle disorders, prostatic disease,
 PT hypotension and nitric oxide mediated immune and nervous diseases
 XX
 PS Example 1; Fig 3; 85pp; English.
 XX
 CC PCR primers MAT84962-74 were used to amplify human arginase II from a
 CC Jurkat cell line cDNA library. The cDNA sequence of Arginase I was used
 CC as a probe sequence for a computer search of cDNA databases. Several
 CC expressed sequence tags with 50-60% sequence homology were identified.
 CC These were combined to give a 1075 bp sequence. The above PCR primers,
 CC were designed to the extreme 3' and 5' ends of the consensus sequence,
 CC and used to isolate arginase II. In addition to a hypothetical role in
 CC the production of proline and glutamate, it is postulated that
 CC arginase II may play an important role in nitric oxide biosynthesis
 CC through the production of ornithine as a precursor of glutamate.
 CC Arginase II, or its agonists, antagonists and fragments, are used to
 CC treat conditions associated with lack of arginase activity. Compounds
 CC that inhibit activation of the protein are used to treat conditions
 CC associated with excess arginase activity. Typical conditions that can be
 CC treated are diseases of the urea cycle, hypertension, hypotension
 CC (caused by sepsis or cytokines), episodic hyperammonaemia, defective
 CC synthesis of proline, glutamate, nitric oxide or ornithine.
 CC hyperargininaemia and related spasticity, prostate disease (e.g. cancer,
 CC prostatitis and benign hypertrophy), prostate or kidney damage, also
 CC nitric oxide associated immune and nervous system diseases. The arginase
 CC II cDNA is used to produce recombinant protein and for chromosome
 CC identification, while its fragments are used (as primers and probes) to
 CC detect arginase II-encoding sequences and to diagnose the above
 CC diseases.
 XX
 SQ Sequence 27 BP; 6 A; 3 C; 11 G; 7 T; 0 other;
 XX
 Alignment Scores:
 Pred. No.: 843 Length: 27
 Score: 6.00 Matches: 6
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 2.33% Indels: 0
 DB: 18 Gaps: 0
 US-09-698-781-3 (1-258) x MAT84966 (1-27)
 OY 42 ThrAlaLeuThrThr 47
 DB 20 ACAGCTCTGCTACACACC 3
 RESULT 30
 AAV00582/C
 ID AAV00582 standard; cDNA: 27 BP.
 AC AAV00582;
 XX
 DT 25-MAR-1998 (first entry)

XX PCR primer 3F used to amplify arginase II from a cDNA library.
 DE
 XX Arginase II; proline production; glutamate production; hyperargininaemia;
 KM nitric oxide biosynthesis; arginase activity; urea cycle disease;
 KM hypertension; hypotension; hyperammonaemia; prostate disease;
 KM PCR primer; ss.
 XX
 OS Synthetic.
 XX
 PN W09733986-A1.
 XX
 PD 18-SEP-1997.
 XX
 PF 20-AUG-1996; 96WO-US13455.
 XX
 PR 14-MAR-1996; 96WO-US03561.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 PA (SMK) SMITHKLINE BEECHAM CORP.
 XX
 PI Dillon PJ, Vockley JG;
 XX
 DR WPI; 1997-470868/43.
 XX
 PT Nucleic acid encoding human arginase II - useful for treating,
 PT diagnosing and monitoring e.g. urea cycle disorders, hypotension,
 PT nitric oxide-mediated immune and nervous diseases, etc
 XX
 PS Example 1; Fig 3; 93pp; English.
 XX
 CC PCR primers AAV00578-90 were used to amplify human arginase II from a
 CC Jurkat cell line cDNA library. The cDNA sequence of Arginase I was used
 CC as a probe sequence for a computer search of cDNA databases. Several
 CC expressed sequence tags with 50-60% sequence homology were identified.
 CC These were combined to give a 1075 bp sequence. The above PCR primers,
 CC were designed to the extreme 3' and 5' ends of the consensus sequence,
 CC and used to isolate arginase II. In addition to a hypothetical role in
 CC the production of proline and glutamate, it is postulated that
 CC arginase II may play an important role in nitric oxide biosynthesis
 CC through the production of ornithine as a precursor of glutamate.
 CC Arginase II, or its agonists, antagonists and fragments, are used to
 CC treat conditions associated with lack of arginase activity. Compounds
 CC that inhibit activation of the protein are used to treat conditions
 CC associated with excess arginase activity. Typical conditions that can be
 CC treated are diseases of the urea cycle, hypertension, hypotension
 CC (caused by sepsis or cytokines), episodic hyperammonaemia, defective
 CC synthesis of proline, glutamate, nitric oxide or ornithine.
 CC hyperargininaemia and related spasticity, prostate disease (e.g. cancer,
 CC prostatitis and benign hypertrophy), prostate or kidney damage, also
 CC nitric oxide associated immune and nervous system diseases. The arginase
 CC II cDNA is used to produce recombinant protein and for chromosome
 CC identification, while its fragments are used (as primers and probes) to
 CC detect arginase II-encoding sequences and to diagnose the above
 CC diseases.
 XX
 SQ Sequence 27 BP; 6 A; 3 C; 11 G; 7 T; 0 other;
 XX
 Alignment Scores:
 Pred. No.: 843 Length: 27
 Score: 6.00 Matches: 6
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 2.33% Indels: 0
 DB: 18 Gaps: 0
 US-09-698-781-3 (1-258) x AAV00582 (1-27)
 OY 42 ThrAlaLeuThrThr 47
 DB 20 ACAGCTCTGCTACACACC 3

Fri Mar 14 14:00:06 2003

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Search completed: March 14, 2003, 05:49:58
Job time : 260 secs
